

What is claimed is:

1. A structure of lead wire connection comprising:

a lead wire covered with an electrical insulating coating;

a land portion electrically connected to the lead wire; and

a cover member disposed in opposition to the land portion with the lead wire held between the land portion and the cover member;

wherein the cover member and the lead wire are electrically connected by resistance welding; and

the lead wire and the land portion are also electrically connected by resistance welding.

2. A method of lead wire connection comprising:

mounting a lead wire covered with an electrical insulating coating onto an upper surface of a land portion;

supplying a cover member onto the lead wire;

pressing the lead wire via the cover member against the upper surface of the land portion by a first electrode tool having a heater mechanism while supporting a lower surface of the land portion by a second electrode tool;

heating the first electrode tool by the heater

mechanism to make the lead wire exposed partially; and
applying an electric current between the first and
second electrode tools so that resistance welding is
effected between the cover member and the lead wire and
between the lead wire and the land portion.

3. A method of lead wire connection comprising:
mounting a lead wire covered with an electrical
insulating coating onto an upper surface of a land portion;
supplying a cover member onto the lead wire;
pressing the lead wire via the cover member against
the upper surface of the land portion by a pressure welding
tool having a heater mechanism; and
heating the pressure welding tool by the heater
mechanism to make the lead wire exposed partially, and
to supply a melted portion of the cover member around
the lead wire and the land portion.

4. The method of lead wire connection according
to claim 2, wherein the cover member comprises a laminate
of a plurality of metal materials having different melting
points; and

the metal material brought into contact with the

lead wire has a melting point lower than a melting point of the metal material brought into contact with the first electrode tool.

5. The method of lead wire connection according to claim 3, wherein the cover member comprises a laminate of a plurality of metal materials having different melting points; and

the metal material brought into contact with the lead wire has a melting point lower than a melting point of the metal material brought into contact with the pressure welding tool.

6. A clad material for lead wire connection comprising:

a laminate of a plurality of metal materials having different melting points,

wherein the clad material is disposed between a lead wire and a welding tool when the lead wire and a land portion are connected by resistance welding or thermal welding.